Description

The G123-819 is an analog signal processing circuit primarily intended to set the ramp rate of a step input command signal, for a closed loop control system. Typical applications are to limit the maximum velocity in a position servo or acceleration in a velocity servo. The “ramp rate” is set by an external analog input signal of +1V to +10V, a higher voltage producing a faster ramp.

A “hold” control input stops the ramp and freezes the output signal. This feature is useful as a system stop, a de-bugging tool or a motion-profiling tool. When the hold input is removed, the output continues to ramp from its present value.

Features

- Ramp rate set by analog input
- Manual (internal) and external ramp rate selection
- Output hold control
- Default 50% ramp rate
- Manual and hold inputs
- Convenient front panel controls and indicators
- Compact DIN rail housing
- CE marked

Specifications

Signal output: 0 to ± 10V
± 10mA max

Output creep rate in hold: +15mV per minute max

Signal input: 0 to ±10V
R in = 100kOhm connected to 0V

Ramp rate input:
+1 to +10V
R in = 67kOhm connected to +5V
+1V = 4V/S
+10V = 40V/S
Default = 20V/S

Front panel indicators:
Vs, internal supply – green
Ramp active, positive – red
negative – green
Man, manual selected – amber
Hold, hold selected – amber

Front panel test points:
Vo, output, 0 to ± 10V
Man. ramp rate, +1 to +10V
+ 0V reference

Front panel trimpot:
Man. ramp rate
FCW = 40V/S
FCCW = 4V/S

Man. and hold inputs:
Relay, +24V nominal, 21 to 28V
6mA @ 24V

Supply:
24V nominal, 22 to 28V
40mA @ 24V, all LED’s illuminated and no output load.

Mounting:
DIN rail, IP 20

Temperature:
0 to +40°C

Dimensions:
100W x 108H x 22.5D

Weight:
126g

CE mark:
EN61000-6-3 emission
EN61000-6-2 immunity

C tick:
EN61000-6-3 emission
Operating details

For detailed Application Notes and the latest version of this Data Sheet please refer to the Moog website www.moog.com/dinmodules